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Inst. of Comput. Technol., Chinese Acad. of Sci., China Qin Zhang Peng Li Jizhong Han Chengde Han

This paper appears in: Networking, Architecture, and Storages, 2006. NAS '06. International Workshop

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servers or between two servers. Typically, conventional data center uses multiple network adapters to build the cost, and so on. Fortunately, InfiniBand provides a high-bandwidth, Iow-latency network, and it has been widely which has five major features: protocol conversion, bandwidth aggregation, virtual service mapping, dynamic econfiguration and redundant array. Through verification and evaluation, latency of RGAMF is between 1us networks. Many methods, such as protocol conversion and bandwidth aggregation, have been proposed to server fabric, which bring many drawbacks, such as complex management, hard scalability and expensive and 2us, and the bandwidth of all IP links is close to wire speed at 1Gbps in both directions. Based on the FPGA (field programmable gate array) embedded in each gateway of array, this architecture also provides neterogeneous interconnect architecture called RGAMF (reconfigurable gateway array of multiple fabrics), adopted so that many researches have been focused on connecting between InfiniBand and conventional used in current data center to create a unified fabric. However, fiber channel and IP fabric are still widely In today's data center, the demand on server I/O is increasing to transfer huge data between clients and eliminate performance limitation caused by heterogeneous fabrics. Nevertheless, diversity and dynamic equirements of server I/O on data center still didn't be considered. This paper proposes a novel petter flexibility and scalability.

Index Terms

Controlled Indexing

bandwidth allocation client-server systems field programmable gate arrays

internetworking protocols reconfigurable architectures redundancy

architecture high-bandwidth network low-latency network protocol conversion reconfigurable gateway array of multiple fabrics redundant array server I/O virtual service reconfiguration fiber channel field programmable gate array heterogeneous interconnect Non-controlled Indexing

1 Gbit/s IP fabric IP links InfiniBand bandwidth aggregation data center dynamic mapping

# Author Keywords Not Available

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<u>L1</u> (storage or disk or disc) same redundant same virtual\$7

526 L1

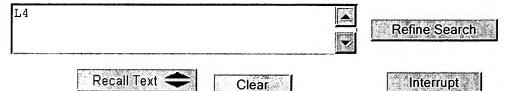
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- L3 11.clm.
- <u>L2</u> L1 and (physical same serial\$2)
- <u>L1</u> (storage or disk or disc) same redundant same virtual\$7

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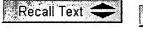
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- L7 15 and L6
- <u>L6</u> 710/240,74,300,316,3,36,38,314,315;711/151,114,154,203;714/5,6,43;370/351,431,464,906,910.
- <u>L5</u> (storage or disk or disc) same redundant same virtual\$7

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- <u>L4</u> L3 and (physical same serial\$2)
- <u>L3</u> 11.clm.
- <u>L2</u> L1 and (physical same serial\$2)
- L1 (storage or disk or disc) same redundant same virtual\$7